



# Quantitative real-time PCR analysis

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 An abbreviated version of this protocol was published in Science Advances in Jun 2023  
 ULK1-mediated metabolic reprogramming regulates Vps34 lipid kinase activity by its lactylation  
 DOI: 10.1126/sciadv.adg4993

## Related files

 shRNA library of acetyltransferase.pdf



**How to cite:** (Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used)

1. (2023). Quantitative real-time PCR analysis. Bio-protocol Preprint. [bio-protocol.org/prep2371](https://bio-protocol.org/prep2371).
2. Jia, M., Yue, X., Sun, W., Zhou, Q., Chang, C., Gong, W., Feng, J., Li, X., Zhan, R., Mo, K., Zhang, L., Qian, Y., Sun, Y., Wang, A., Zou, Y., Chen, W., Li, Y., Huang, L., Yang, Y., Zhao, Y. and Cheng, X. (2023). ULK1-mediated metabolic reprogramming regulates Vps34 lipid kinase activity by its lactylation. Science Advances 9(22). DOI: [10.1126/sciadv.adg4993](https://doi.org/10.1126/sciadv.adg4993)

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